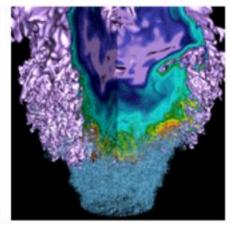
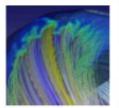
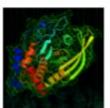
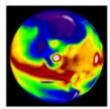
# Storing SSH public keys in NIM

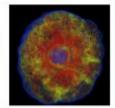


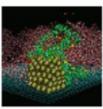
















## SSH keys in NIM: Background



### What's happening?

 Starting January 12, 2016, authentication via public keys in ~/.ssh/authorized\_keys is disabled

#### Who is affected by this change?

- Affected: If you use public key authentication to access NERSC systems via SSH
- Not affected: If you authenticate using your NIM password (or connect via another mechanism)

## Why is NERSC doing this?

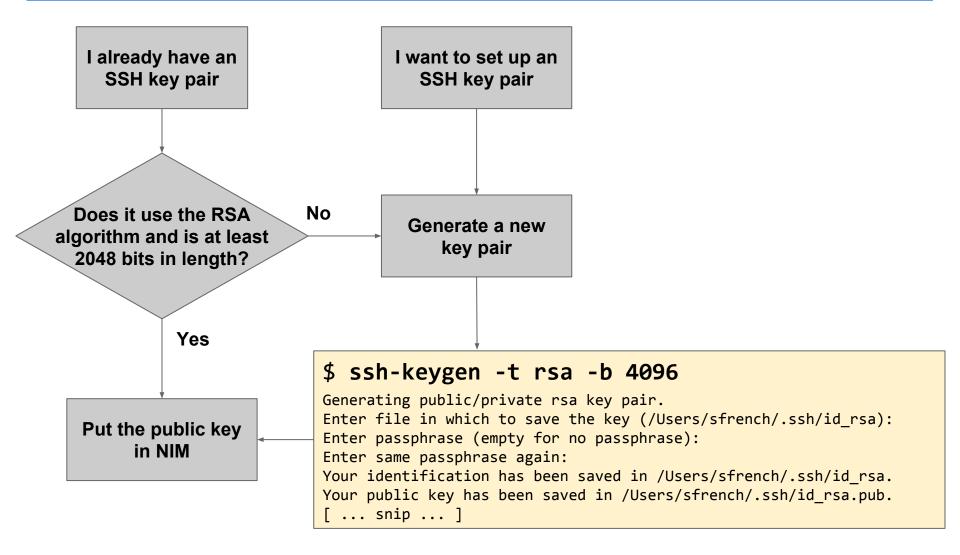
 Security improvements that require authentication from a single source (LDAP)





#### So, what should I do?





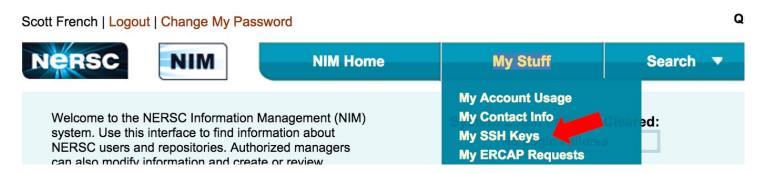




### Adding SSH public keys to NIM (1)



#### Login to NIM and navigate to My Stuff → My SSH Keys:



#### You should see something like this:

Scott French





### Adding SSH public keys to NIM (2)



#### Copy and paste your public key into the text box; Click Add:



Easy ways to copy the public key in its entirety

Mac

\$ pbcopy < ~/.ssh/id\_rsa.pub</pre>

Linux

\$ xclip < ~/.ssh/id\_rsa.pub</pre>





### Adding SSH public keys to NIM (3)



#### When you're done, you'll see something like this:

#### **SSH Public Keys**



**Tip:** To delete an existing public key, mark the checkbox and click the red **X** 

**Tip:** You can add multiple public keys to NIM





#### But, will it work for me?



#### You can test this on Cori! After saving in NIM:

- Rename your ~/.ssh/authorized\_keys file to something else (e.g. authorized\_keys.old)
- Try logging into Cori
- What if I ssh between nodes of the same system?
  - This should "just work" (server-side configuration)
- What if I ssh between NERSC systems?
  - Option 1: ssh agent forwarding (ForwardAgent)
  - Option 2: Generate a new key pair at NERSC, and add that public key to NIM as well





### What if I need help?



- As always, the consultants are here to help!
- If you have a use case or workflow for which this change could pose problems, we'd like to know
  - There is still time to come up with solutions or workarounds for unusual cases
- Bottom line: If you use public key authentication when ssh-ing to NERSC, please give this a try soon on Cori
- See also: https://www.nersc.gov/users/connecting-tonersc/connecting-with-ssh/







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Thank you!



